

## SABIC® PPCOMPOUND 9710

PP COMPOUND MINERAL FILLED IMPACT MODIFIED  
REGION AMERICAS

### DESCRIPTION

SABIC® PPCOMPOUND 9710 is a elastomer-modified mineral filled Polypropylene for automotive interior applications. This material has been designed to combine a good performance profile with good processing.  
IMDS ID: 882046066

### TYPICAL PROPERTY VALUES

Revision 20260317

| PROPERTIES                                         | TYPICAL VALUES | UNITS    | TEST METHODS |
|----------------------------------------------------|----------------|----------|--------------|
| <b>MECHANICAL</b>                                  |                |          |              |
| Tensile Stress, yield, 50 mm/min                   | 20             | MPa      | ISO 527      |
| Tensile Stress, break, 50 mm/min, 1A               | 14             | MPa      | ISO 527      |
| Tensile Strain, yield, 50 mm/min                   | 3.5            | %        | ISO 527      |
| Tensile Strain, break, 50 mm/min                   | 23.2           | %        | ISO 527      |
| Tensile Modulus, 1 mm/min                          | 1920           | MPa      | ISO 527      |
| Flexural Modulus, 2 mm/min, 64mm span              | 2020           | MPa      | ISO 178      |
| <b>IMPACT</b>                                      |                |          |              |
| Instrumented Impact Energy @ peak, 23°C @ 6.6 m/s  | 19             | J        | ASTM D3763   |
| Instrumented Impact Energy @ peak, 0°C @ 6.6 m/s   | 18             | J        | ASTM D3763   |
| Instrumented Impact Energy @ peak, -30°C @ 6.6 m/s | 19             | J        | ASTM D3763   |
| Izod Impact, notched, 23°C, 80°10°4mm, Cut         | 18             | kJ/m²    | ISO 180/1A   |
| Izod Impact, notched, 0°C, 80°10°4mm, Cut          | 6              | kJ/m²    | ISO 180/1A   |
| Izod Impact, notched, -30°C, 80°10°4mm, Cut        | 4              | kJ/m²    | ISO 180/1A   |
| Charpy Impact, notched, 23°C, 80°10°4mm, Cut       | 18             | kJ/m²    | ISO 179/1eA  |
| Charpy Impact, notched, 0°C, 80°10°4mm, Cut        | 5              | kJ/m²    | ISO 179/1eA  |
| Charpy Impact, notched, -30°C, 80°10°4mm, Cut      | 3              | kJ/m²    | ISO 179/1eA  |
| <b>THERMAL</b>                                     |                |          |              |
| CLTE, -30C to 100°C, flow                          | 49             | µm/mK    | ISO 11359-2  |
| CLTE, -30C to 100°C, xflow                         | 147            | µm/mK    | ISO 11359-2  |
| Vicat Softening 10N, 50°C/hr                       | 133            | °C       | ISO 306      |
| HDT 0.45 MPa, 80°10°4mm, Cut                       | 109            | °C       | ISO 75-1&2   |
| HDT 1.8 MPa, 80°10°4mm, Cut                        | 59             | °C       | ISO 75-1&2   |
| <b>PHYSICAL</b>                                    |                |          |              |
| Specific Gravity                                   | 1.04           | -        | ASTM D792    |
| Mold Shrinkage, 48 hrs @ 23°C, flow                | 0.5            | %        | SABIC method |
| Mold Shrinkage, 48 hrs @ 23°C, xflow               | 0.9            | %        | SABIC method |
| Density                                            | 1.04           | g/cm³    | ISO 1183     |
| Melt Flow Rate, 230°C/2.16 kg                      | 20             | g/10 min | ISO 1133     |
| <b>INJECTION MOLDING</b>                           |                |          |              |
| Drying Temperature                                 | 80 – 100       | °C       |              |
| Drying Time                                        | 2 – 4          | Hrs      |              |
| Melt Temperature                                   | 210 – 270      | °C       |              |

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CHEMISTRY THAT MATTERS™



| PROPERTIES                  | TYPICAL VALUES | UNITS | TEST METHODS |
|-----------------------------|----------------|-------|--------------|
| Nozzle Temperature          | 210 – 270      | °C    |              |
| Front - Zone 3 Temperature  | 210 – 270      | °C    |              |
| Middle - Zone 2 Temperature | 200 – 250      | °C    |              |
| Rear - Zone 1 Temperature   | 190 – 230      | °C    |              |
| Mold Temperature            | 15 – 60        | °C    |              |
| Back Pressure               | 1 – 1.5        | MPa   |              |

#### STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and/or high humidity as this could well speed up alteration and consequently loss of quality of the material and/or its packaging. Keep material completely dry for good processing.

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